

Product datasheet for SC327270

OTOA (NM_001161683) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OTOA (NM_001161683) Human Untagged Clone
Tag:	Tag Free
Symbol:	OTOA
Synonyms:	CT108; DFNB22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327270 representing NM_001161683. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGGAACTCAATCACCTACAGGGACCAGGCAGCCGTGGAAAACCACTGGAGCAGCGTCTGCACCA
 CCCCAGAAGCTGCTGGAGGACCTGAGGAAGACAGACGCCAGCAGTTCGCACTGCCATGAAATGCCTC
 TTAGAAGACAAGAAGGACGGCTTGACCTGAAAGACATCATCATCGACTTAGGAGAGATTCGAGAACGA
 GCCTTGACAGAGCCCTGGCGTGAACCGCAGCCTGTTTCTCATCACACTGGAGAGGTGTTTCCAGATGCTG
 AACTCCCTGGAGTGTGTGGAGATCCTGGCAAGGTGCTGAGGGGGTCTCAGGGAGCTTTCTCCAGCCA
 GACATCACAGAGCGGCTCCCTCGGGACCTGCGCAGGATGCCTTAAGAACCTATCTGCAGTGTTCAAA
 GATCTCTACGACAAAACCTCGGCTCATTCCAGAGAGCTCTCTATTCCTGGATGACTGGAATACTGCAG
 ACATCCTCCAATGCCACTGATGACTCTGCTTCATGGGTCACTGCGGAACACTTATGGGTTTTGGGCAGA
 TACATGGTTACCTATCGTTTGAAGAAATTACGAAAATTAGTCCTATAGAAATTGGGCTGTTTATCAGC
 TATGACAACGCCACCAAGCAGCTGGACATGGTCTATGACATCACACCTGAGCTGGCCAGGCGTTTCTG
 GAGAGGATCAGCTCCTCCAACCTTAACATGAGGAATACCTCCACCATCCACAGGCTGGGGCTGCTGGTT
 TGTTTCTACAATGACCTGGAATTGCTGGATGCCACTGTGGCTCAAGTCTGCTTTACCAGATGATCAAG
 TGCAGCCACCTGAGGGGCTTCCAGGCTGGCGTCCAGAAGCTCAAAGCAGAACTCCTGGACATTGCCATG
 GAGAACCAGACCCTCAATGAGACCCTGGGTTCTTTGTGGATGCAGTTGTAGGTTTGACCTACAGCCAA
 CTGGAATCCCTCTCCCCGAGGCTGTGCACGGAGCCATCTCCACCCTCAACCAGGTCTCAGGTTGGGCC
 AAGAGCCAGGTCACTATCTTGTCTGCCAAATACTTGGCCCATGAGAAGGTGCTGTCTTTCTACAATGTC
 AGCCAGATGGGCGCACTGCTGGTGGGGTCAGCACCAGGCTTCTGAGCATGAAACGCAAGGACATC
 TCGCAGGTCTGAGAAGTGCCGTCTCCAGTATGTATCCGACTTGTACCTGCCAGCAGCAAGGTATC
 CTCAGCAAGATGGTCCAAGCGGAAGACTGCCCCAGGCATCGTGGAGATACAAGGGCTTTCTTTAAG
 GAAGTGTCTCTTTGATTTAAGGAGGCAACCTGGATTCAACTCTACAGTCTGAAGGATAAGGAACCT
 GGAAGGAGCCAGGCTCTGTTCTGTATGAGCTTCTGTTAAAGACCACCAGAAGGCCTGAGGAGCTTTTG
 AGTGCTGGGCAGCTGGTCAAAGGCGTGACCTGCTCACACATTGATGCCATGAGCACTGACTTCTTTCTG


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GCCCATTTCCAGGATTTTCAGAACAACTTCGCCCTGCTTTACCCTATCAGGTTAATTGTTTGGCGTGG
 AAATACTGGGAAGTTTCCAGATTGTCTATGCCACCTTTCTCTTGGCTGCACTCCCGGCCCGCTACCTG
 GCTTCTGTCCCAGCCTCCAGTGTGTGCCCTTTCTGATCAGCCTGGGGAAGAGCTGGTTGGACTCCTTG
 GTTTTAGATTCCACAAAAAGACTTCAGTCCTCAGGAAAGTGCAGCAGTGCCTGGACGACTCCATTGCT
 GATGAGTACACTGTGGACATCATGGGGAACCTGCTGTGCTACTTGCCGGCAGCCATCATCGACAGGGGG
 ATCTCCCCCAGGGCTTGGGCGACTGCTCTACACGGCCTCAGAGACTGCCAGACCTCAACCCTGAGCAA
 AAGGCTGCAGTGAGGCTCAAGCTCCTGGGACAGTATGGACTCCCTCAGCACTGGACAGCCGAGACCACG
 AAGGACTTGGGACCCCTTCTAGTACTTTTCTCAGGAGATGAATTAAGCTCTATAGCCACAAAGTTTCCT
 GAGATCCTTCTGCAAGCAGCTTCCAAGATGGCCAGGACCTGCCCACTAAAGAATTCTCTGGGCTGTC
 TTTTCAGTCTGTTTCGGAACAGCAGTGATAAGATCCCCAGCTATGACCTATGCCTGGTTGCCATGGAGTC
 GTGGCCCCCTCTTCTGATGACATCTTCAAGTTGGCCGAAGCCAACGCCTGCTGGGCCCTGGAGGACCTG
 CGGTGCATGGAGGAAGACACATTCATCAGGACCGTGAACTGCTGGGAGCTGTCCAGGGTTTCAGCCGG
 CCTCAGCTGATGACCCTGAAGGAGAAAGCAATACAGGTTTGGGACATGCCATCTTACTGGAGAGAACAC
 CATATCGTCTCCCTGGGCGCATTGCTCTGGCTCTTAATGAGAGTGAGCTGGAGCAGCTGGACCTCAGC
 TCCATAGACACTGTGGCTTCCCTAAGCTGGCAAACAGAATGGACCCGGGACAGGCTGAATCCATTTTG
 CAAGGGTACCTGGATGATTTCAGGATACAGTATCCAGGACCTGAAGAGCTTTCATTTGGTAGGACTTGGT
 GCAACCTGTGTGCTATAAACATCACTGAAATCCCACTTATAAAGATCTCAGAATTCAGGGTGGTAGTG
 GCCAGAATTGGGACCCTGCTCTGCAGCACACATGTCTTAGCCGAGTTTAAGAGGAAGGCTGAAGTTGTG
 TTTGGGATCCCACTGAGTGGACCAGTTCTGTCTTGCAAGAGCTTGGGACCATTGCAGCTGGATTAAT
 AAGGCAGAGCTCCGGATGCTTGACAAGGATTTGATGCCATATTTCCAGCCATCAGCAATAAAATGCCTT
 CCTGATGAGATATTCAAAGAGCTGTCCGCGGAGCAGATCGCTCCCTGGGTCCGGAACGCCGCGGCG
 GTGACCCACGCCAGCGCCGCGGCTCAGTCCACTGCAGCTGCAGAGCCTCCAGCAGGCGCTAGATGGC
 GCCAAGACTCACTCCTGGCAGGACGCGCCGCTAGCGCCGGTCCCACTAGAACCTCATCTCGCGTTCT
 CCGCAGGAGCTCTCCAGTCGTGGGTCTTTGGCTTGGTTGTCCCTGCTGGTTCTAATGGCCAAGCTC
 CTGTGGTGA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001161683
Insert Size:	3183 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001161683.1](#)

RefSeq Size: 3480 bp

RefSeq ORF: 3183 bp

Locus ID: 146183

UniProt ID: [Q7RTW8](#)

Cytogenetics: 16p12.2

MW: 117.9 kDa

Gene Summary: The protein encoded by this gene is specifically expressed in the inner ear, and is located at the interface between the apical surface of the inner ear sensory epithelia and their overlying acellular gels. It is proposed that this protein is involved in the attachment of the inner ear acellular gels to the apical surface of the underlying nonsensory cells. Mutations in this gene are associated with autosomal recessive deafness type 22 (DFNB22). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

Transcript Variant: This variant (3) is missing several coding exons, and contains an alternative exon at its 5' end compared to variant 1. This results in translation initiation from a different start codon, and a shorter isoform (3) with a distinct N-terminus compared to isoform 1.